

## SEPARATOR FOR ALKALINE SECONDARY BATTERY

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### Abstract

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**PROBLEM TO BE SOLVED:** To provide a separator, which is easy to be handled at the time of manufacturing and which has the excellent electrolyte holding property and the sufficient ventilating property, by utilizing a non-woven fabric, which is mainly composed of polyolefin fiber including microfibrillated cellulose, as a separator for alkaline secondary battery.

**SOLUTION:** As a separator for alkaline secondary battery, a non-woven fabric, which is mainly composed of polyolefin group fiber, is utilized, and in the case where this non-woven fabric includes the microfibrillated cellulose, an excellent result can be obtained. In this case, a microfibrillated cellulose means the fine fiber, which is obtained by fibrillating the cellulose fiber having a high degree of crystallization. The microfibrillated cellulose is desirably included at 0.5-30wt.% in relation to the all weight of the non-woven fabric. In the case where the microfibrillated cellulose is included at 0.5wt.% or less, strength of the non-woven fabric and hydrophilic characteristic are remarkably lowered, and in the case where the microfibrillated cellulose is included at 30wt.% or more, ventilation of the non-woven fabric is lowered.

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